PHASE CHART

	2	3	4	5	6
R Y Y G G	R Y G	(R) (Y) (Y) (G) (G)	RYG	RYG	R Y Y G G

SIGNAL # I LEFT TURN ARROWS

	0.014	<u> </u>			101111	- i , i ,
٠	ARE	COV	ERED	IN	STAGE	IC

PHASE I	G	G	R	R.	R	—G →	
I CHANGE	Y	G	R	R	R	— Y —▶	<u>_</u>
PHASE 2	R	R	G ← G	G	R	R	4
2 CHANGE	R	R	4 Ÿ	Y	· R	R	· \ - (
PHASE 4	R	R	R	R	G	G	_
4 CHANGE	R	R	R.	R	Υ	Υ	4
FLASHING	E1 /D	FL/R	FL/R	EI /D	FL/R	FL/R	← - † -
OPERATION		Fi/T\	"				+

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

MR. DAVID MALKOWSKI DISTRICT ENGINEER

PHONE: 410-321-2780

MR. RANDELL SCOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: 410-841-5450

MR. JOE MCMAHON UTILITY ENGINEER PHONE: 410-321-2780 MR. RICHARD L. DAFF. SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: 410-787-7630

THE POWER COMPANY REPRESENTATIVE IS: BALTIMORE GAS ELECTRIC COMPANY MR. JOSEPH G. BUNCH INDUSTRIAL / COMMERCIAL SERVICES NEW BUSINESS CONSTRUCTION 7317 PARKWAY DRIVE SOUTH HANOVER, MARYLAND 21076 410-859-9030

PROJECT DESCRIPTION

GENERAL:

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING INTERSECTION TRAFFIC SIGNAL AND STREET LIGHTING AT MD 146 AND HAMPTON LANE IN BALTIMORE COUNTY. MD 146 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION: I. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE PHASE, SEMI-TRAFFIC ACTUATED MODE, WITH THE MD 146 APPROACHES RUNNING SPLIT AND HAMPTON LANE RUNS ALONE

CONTROLLER REQUIREMENTS:

A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH THREE (3) FOUR-CHANNEL, TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIERS. INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, WITH SYSTEMS PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE TRAFFIC CONTROL NUMBERS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-105.00 STANDARD NO. MD-105.01

STANDARD NO. MD-105.103 (INTERSECTION FLAGGING OPERATION)

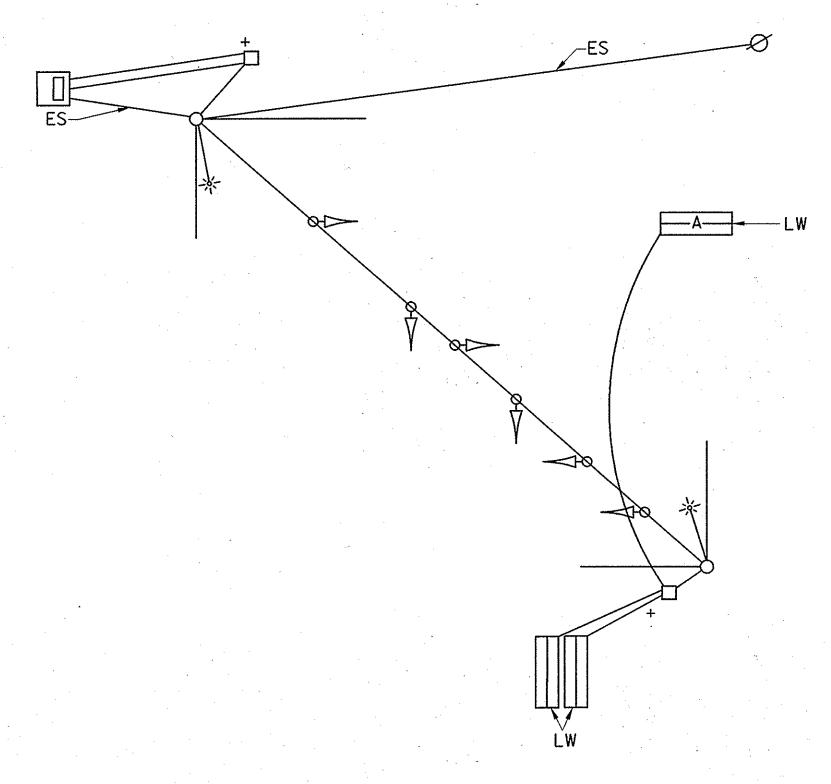
STANDARD NO. MD-105.105 (SHOULDER WORK) STANDARD NO. MD-105.107 (LANE SHIFT) STANDARD NO. MD-105.02

STANDARD NO. MD-105.101 (FLAGGING OPERATION) STANDARD NO. MD-105.109 (LANE SHIFT)

NOTE: STANDARDS TO BE MODIFIED, BY REPLACING W21-5 SIGN WITH A W29-I SIGN (ROAD WORK AHEAD).

WIRING DIAGRAM





WIRING KEY

- 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
 - LW LOOP WIRE (NO. 14 A.W.G.)
 - ES EXISTING SERVICE
 - + $\frac{3}{4}$ IN. × 10 FT. GROUND ROD

REVISIONS:

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION	
813	973023	7.5 S.F.	SHEET ALUMINUM	SIGN

1 EACH R3-5R SIGN (30 IN. x 36 IN.) -"LANE USE CONTROL - RIGHT ONLY" SPAN WIRE MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
805	805011	8 L.F.	FURNISH AND INSTALL I IN. GALVANIZED ELECTRICAL CONDUIT FOR DETECTOR SLEEVE
810	810011	560 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
810	860265	I EACH	FURNISH AND INSTALL LOOP DETECTOR SPLICE TO EXISTING 2 CONDUCTOR ALUMINUM SHIELDED CABLE
814	860265	4 EACH	RELOCATE EXISTING SIGNAL HEAD
814	800000	3 EACH	RELOCATE EXISTING SIGN ON SPAN WIRE
815	862102	160 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
	585416	IO L.F.	FURNISH AND INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
	800000	L.S	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
813	813015	7.5 S.F.	INSTALL OVERHEAD SIGN

CONSTRUCTION DETAILS

- RELOCATE SIGNS AND SIGNAL HEADS AS NEEDED. REMOVE SIGN # 7,8 &II AND COVER SIGNAL HEAD #I AND INSTALL SIGN # 13 AS DIRECTED BY THE ENGINEER. (APPROX. LOCATIONS ARE SHOWN ON THE SPAN) LOCATIONS ARE TO BE AS DIRECTED BY THE ENGINEER.
- INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
- ABANDON EXISTING LOOP DETECTOR
- INSTALL 6'x30' LOOP DETECTOR, ENCASED IN 4 FLEXIBLE TUBING (3-6-3 TURNS) QUADRUPOLE TYPE.
- INSTALL I' GALVANIZED ELECTRICAL CONDUIT FOR (DETECTOR WIRE SLEEVE).
- DISCONNECT EXISTING LOOP DETECTOR AND INSTALL NEW LOOP DETECTOR TO EXISTING ALUMINUM SHIELDED CABLE.

STAGE IC TEMPORARY TRAFFIC SIGNALS

MDOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

SS-7

		CHIEF SIGNAL DESIGN SECTION	T	RAFFIC EN	GINEERING DESIGN	DIVISION LOG M	ILE <u># 03014600.85</u>
RUMMEL, KLEPPER & KAHL, LLP CONSULTING ENGINEERS		ASST. DISTRICT ENGINEER TRAFFIC	DRAWN BY: SMH DES. BY: DLA CHK. BY: BJH	/SMH	1-695 RAMI	NEY VALLEY REPORTED LESS COUNTY:	
81 MOSHER STREET BALTIMORE, MARYLAND 21217 TEL: (410) 728-2900 FAX: (410) 383-3270	November, 1998 Reconstruct Due To New Geometrics. SHA No.: BA9775372	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION DIRECTOR OFFICE OF TRAFFIC & SAFETY	DATE: NOVEMBER, 1998 SCALE: N.T.S.	F.A.P. NO. S.H.A. NO.	SEE TITLE SHEET BA9775372	TS/STD. NO.: 454E-X1C-GI	SHEET NO.
		· .	,				

APPROVALS: